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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | Atty. Docket No. MIT-166 |
| | | U.S. APPLICATION NO. (If known. See 37 CFR 1.5) |
| INTERNATIONAL APPLICATION NO. PCT/US2004/024747 | | PRIORITY DATE CLAIMED 29 July 2004 |
| 10/566686 | | |
| TITLE OF INVENTION METHOD AND STRUCTURE OF STRAIN CONTROL OF SIGE BASED PHOTODETECTORS AND MODULATORS | | |
| APPLICANTS FOR DO/EO/US LIU, Jifeng; CANNON, Douglas D.; WADA, Kazumi; JONGTHAMMANURAK, Samerkhea; DANIELSON, David T.; MICHEL, Jurgen; KIMERLING, Lionel C. | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.x</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ol style="list-style-type: none"> <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> has been communicated by the International Bureau. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). (Not applicable – application was written and filed in English.)</p> <ol style="list-style-type: none"> <input type="checkbox"/> is attached hereto. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(C)(3))</p> <ol style="list-style-type: none"> <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). <input type="checkbox"/> have been transmitted by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input checked="" type="checkbox"/> have not been made and will not be made. <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> | | |
| Items 11 To 20 below concern document(s) or information included: | | |
| <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98, including Form PTO-1449 and copies of references B1 – B2, C1 – C5.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment (7 pgs)</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> Copy of Revocation of Prior Powers & Power of Attorney by Applicant as filed April 8, 2005(3 pages); Copy of Notification of the Recording of a Change</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input checked="" type="checkbox"/> A copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translated of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: Return Receipt Postcard; Copy of publication of search report</p> | | |

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IAP20 Rec'd PCT/PTO 31 JAN 2006

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| 21. The following fees are submitted: | | | | <u>CALCULATIONS</u> | PTO USE ONLY |
| <input checked="" type="checkbox"/> a) Basic national fee \$300.00 <input checked="" type="checkbox"/> b) Examination fee \$200.00 <input checked="" type="checkbox"/> c) Search fee \$500.00 <input type="checkbox"/> d) Size fee (for each additional 50 sheets over 100 sheets) \$250.00 | | | | | |
| ENTER APPROPRIATE FEE AMOUNT = | | | | \$ 1000 | |
| Surcharge of \$130.00 for furnishing the oath or declaration of later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$ 130 | |
| CLAIMS | | NUMBER FILED | NUMBER EXTRA | RATE | |
| Total claims | | 27 - 20 = | 7 | X \$50.00 | |
| Independent claims | | 2 - 3 = | 0 | X \$200.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | | + \$360.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 1480 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | | |
| SUBTOTAL = | | | | \$ 1480 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | + \$ | |
| TOTAL NATIONAL FEE = | | | | \$ 1480 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | + \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ 1480 | |
| | | | | Amount to be: | \$ |
| | | | | refunded | |
| | | | | charged | \$ |

a. A check in the amount of \$ 1480 to cover the above fees is enclosed.

b. Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment to Deposit Account No. 07-1700.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Patent Administrator
 Goodwin | Procter LLP
 Exchange Place
 Boston, MA 02109
 Customer No. 051414



SIGNATURE

Natasha C. Us
 NAME

44,381
 REGISTRATION NUMBER

1/31/06
 DATE